IN THE CLAIMS

Please amend the Claims as follows:

- 1. (Original) A method for producing osseoinductive extracellular material from skeletal cells which method comprises or consists of the steps of:
- (1) culturing skeletal cells in a suitable culture medium;
- (2) harvesting extracellular material produced by said cultured cells; and optionally isolating and/or purifying said harvested material;
- (3) lyophilyzing said material; and
- (4) irradiating said material with gamma radiation.
- 2. (Original) A method according to claim 1 including the additional step of adding a radioprotectant moiety to the material prior to said irradiating step (4).
- 3. (Original) A method according to claim 1 wherein the material contains a radioprotectant moiety prior to said irradiating step (4).
- 4. (Currently Amended) A method according to claim 1 or 2 or 3 including the additional step of:
- (5) adding a physiologically acceptable diluent and/or excipient and/or adjuvant and/or carrier, to form a therapeutic composition.
- 5. (Currently Amended) A material produced by the method of claim 1 or 2 or 3.
- 6. (Original) A material according to claim 5 which is substantially free of bacteria and viruses.
- 7. (Original) A composition produced by the method of claim 4.

- 8. (Original) A composition according to claim 7 which is substantially or completely free of bacteria and viruses.
- 9. (Currently Amended) A method of treating a patient (human or other animal) requiring bone repair/regeneration, which involves administering to said patient an osseoinductive amount of a material according to claim 5 or 6.
- 10. (Currently Amended) A method of treating a patient (human or other animal) requiring bone repair/regeneration, which involves administering to said patient an osseoinductive amount of a composition according to claim 6-or 7.
- 11. Canceled.
- 12. Canceled.
- 13. (Currently Amended) A composition according to claim 7 or 8 in frozen form.
- 14. (Currently Amended) A composition according to claim 7 or 8 in frozen-thawed form.
- 15. (Currently Amended) A composition according to claim 7 or 8 in freeze-dried form.
- 16. (Currently Amended) A method according to claims 1 to 4 wherein said material is obtained from cartilage cells.
- 17. (Original) A method according to claim 16 wherein said material is obtained from hypertrophic cartilage cells.

- 18. (Original) A method according to claim 17 wherein said material is obtained from immortalised hypertrophic chondrocyte cells.
- 19. (Currently Amended) A method according to claims 16 to 18 wherein said material is obtained from a human cell.
- 20. (Original) A method according to claim 19 wherein said material is obtained from a human cell line.
- 21. (Currently Amended) A method according to claims 1 to 4 wherein said material contains a mixture of: (1) one or more cytokine; (2) one or more growth factor; and (3) one or more collagen.
- 22. (Currently Amended) A method according to claim 2 or 3 wherein said radioprotectant moiety comprises or consists of a free radical scavenger.
- 23. (Currently Amended) A method according to claim 2 or 3 wherein said radioprotectant moiety comprises or consists of an anti-oxidant.
- 24. (Currently Amended) A method according to claims 1 to 4 wherein said irradiating step (4) is at a dose in the range 100Gy to 45kGy.
- 25. (Currently Amended) A method according to claims 1 to 4 wherein said irradiating step (4) is at a dose in the range 5kGy to 45kGy.
- 26. (Currently Amended) A method according to claims 1 to 4 wherein said irradiating step (4) is at a dose in the range 5kGy to 20kGy.

- 27. (Currently Amended) A method according to claims 1 to 4 wherein said irradiating step (4) is at a dose selected from the group consisting of 5kGy, 10kGy, 15kGy, and 20kGy.
- 28. (Currently Amended) A method according to claims 1 to 4 wherein said irradiating step (4) is carried out at a temperature in the range -30°C to +80°C.
- 29. (Currently Amended) A method according to claims 1 to 4 wherein said irradiating step (4) is carried out at about room temperature.
 - 30. (Currently Amended) A method according to claims 1 to 4 wherein said irradiating step (4) is carried out at or below room temperature.
 - 31. (Currently Amended) A method according to claims 1 to 4 wherein said irradiating step (4) is carried out at or above room temperature.
 - 32. (Currently Amended) A method of treatment according to claim 9 or 10 wherein said osseoinductive material or composition is used in conjunction with a medical device, whereby the material promotes/augments supplemental bone formation in, on or around the device.
 - 33. (Currently Amended) A method of treatment according to claim 9 or 10 wherein said osseoinductive material or composition is administered for bone repair/regeneration in a medical indication selected from the group consisting of: bone fractures; surgical bone loss e.g. resulting from removal of cancerous bone, craniomaxillofacial surgery and cranioplasty; joint revision including hip, knee, shoulder, and small joint replacements; bone trauma including all orthopaedic and craniomaxillofacial fractures e.g. spinal fusion following laminectomy inclusive of total disc prosthesis and nuclear prosthesis; osteoporetic fractures and bony spinal injury; congenital bone defects e.g. osteogenesis imperfecta; bone structures requiring supplementation such as bone void filling e.g. following a craniotomy; osteoporosis; and periodontal defects such

as oral and periodontal repair including the filling of intrabony voids and alveolar ridge augmentation and voids in the jawbone; periodontal repair of alveolar bone and preparation of alveolar bone for implants and prostheses; and supplementation/augmentation of bone formation in combination with prostheses, including joints (hip, knee, ankle, elbow), dental implants, maxilliofacial devices and spine devices.

- 34. Canceled.
- 35. Canceled.
- 36. Canceled.